

Fig. 2

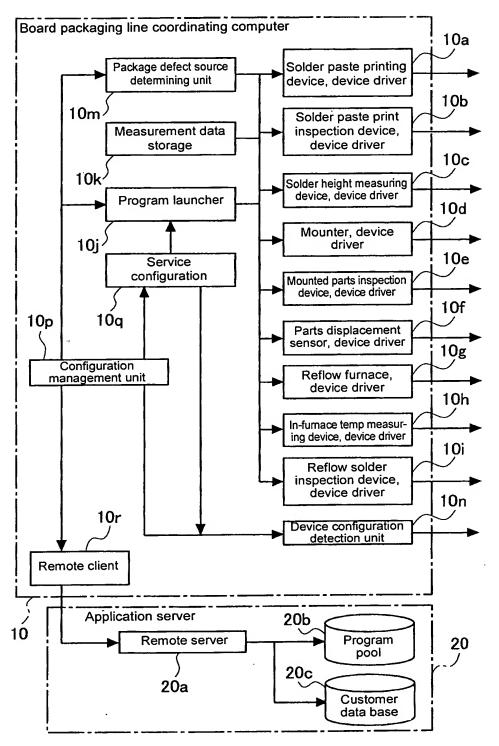
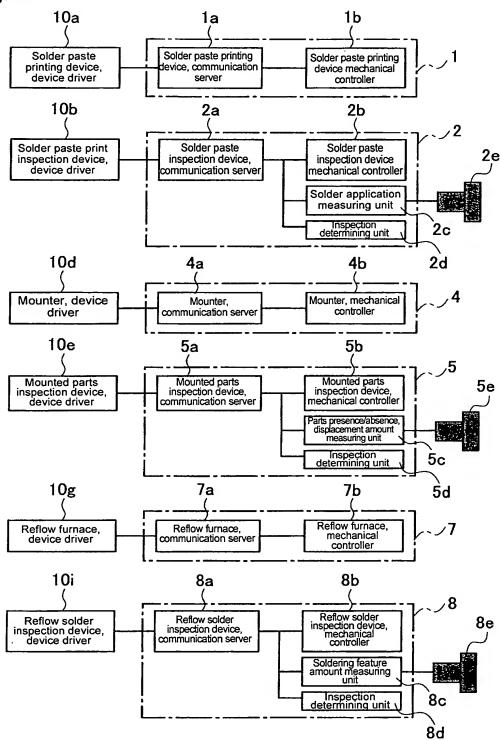


Fig. 3



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## Fig. 4A

Data
Number of records
Record 1
•••
Record n

Data structure of data storage

## Fig. 4B

Data		
Board ID		
Solder paste printing work starting time		
Solder paste printing work finish time		
Solder paste print inspection starting time		
Solder paste print inspection result information		
Solder position information		
Solder height information		
Solder paste print inspection finish time		
Part mounting work starting time		
Part mounting work finish time		
Mounted parts inspection starting time		
Mounted parts inspection result information		
Mounted parts inspection finish time		
Mounted parts position information		
Reflow starting time		
In-reflow temp information		
Reflow finish time		
Reflow solder inspection starting time		
Reflow solder inspection result information		
Reflow solder inspection finish time		
Additional measuring device information 1		
•••		
Additional measuring device information 2		

Contents of each record

Fig. 5

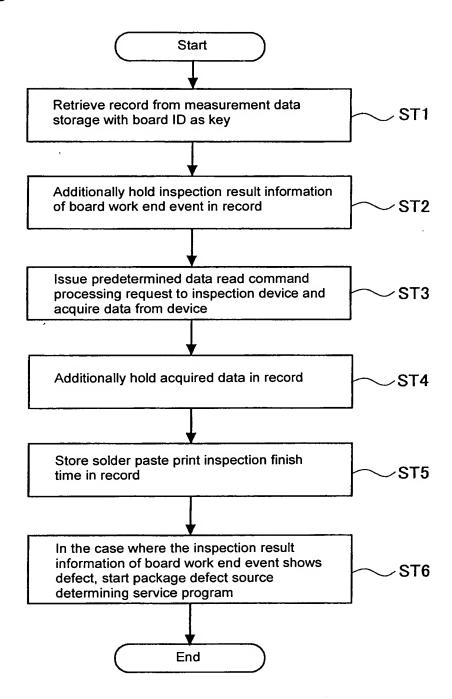


Fig. 6

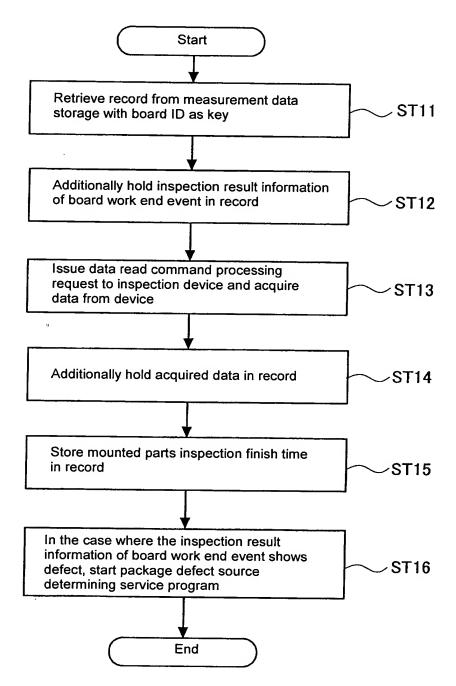


Fig. 7

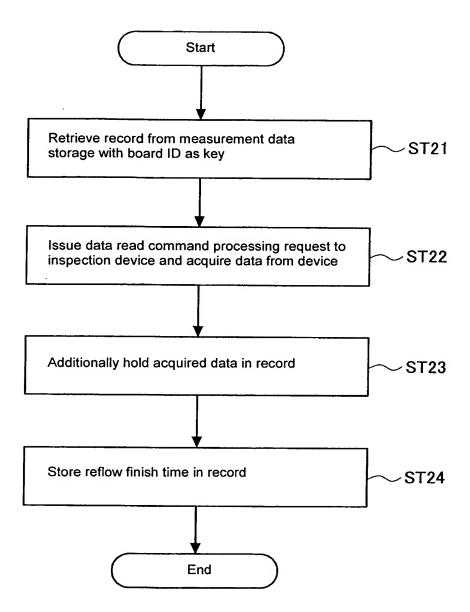
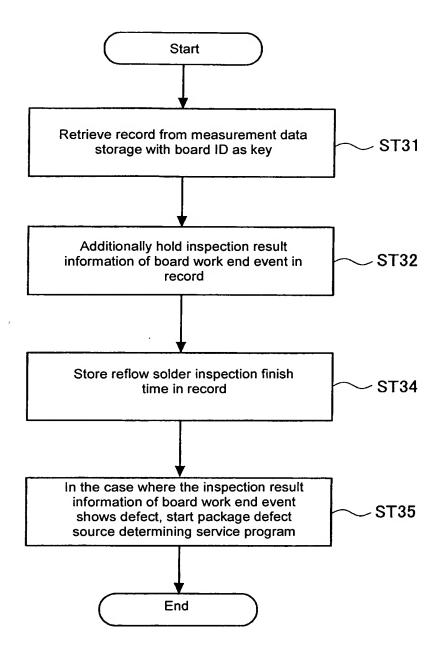
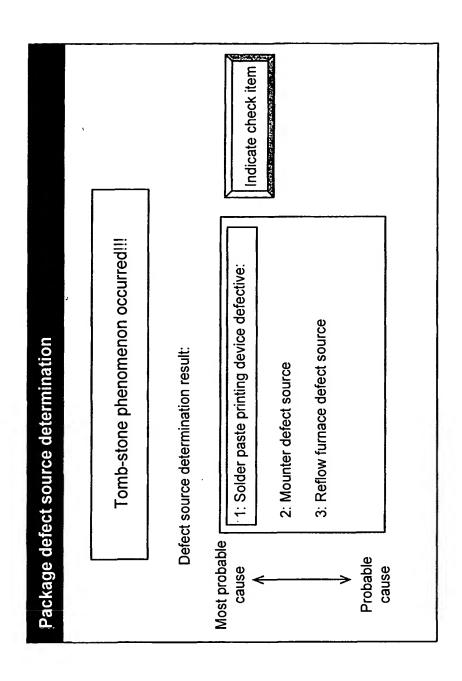


Fig. 8



## **BOARD PACKAGING LINE**



Inventor(s): Hiroshi YOSHIDA et al. DOCKET NO.: 044499-0179

## Fig. 10A

Data
Production line name
Number of devices
Device designating information 1
•••
Device designating information n

### Service setting information

## Fig. 10B

Data
Device type
Device name
Device instance name

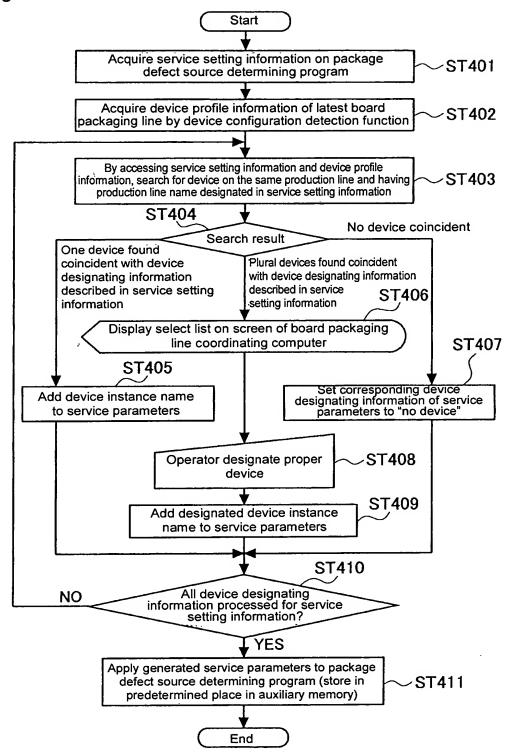
#### Device designating information

## Fig. 10C

Data	
Production line name	
Solder paste printing device Device designating information	
Solder paste print inspection device Device designating information	
Mounter device designating information 1	
Mounter device designating information 2	
Mounter device designating information 3	
Mounted parts inspection device Device designating information	
Reflow furnace device designating information	
Reflow solder inspection device Device designating information	

Service parameters

Fig. 11



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## Fig. 12A

Data
Number of records
Record 1
•••
Record n

Data structure of program pool

Fig. 12B

Data
Service setting information (model)
Program proper

Contents of each record

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## Fig. 13A

Data	
Number of records	
Record 1	
•••	
Record n	

Customer data base

Fig. 13B

Data
Board packaging line coordinating computer ID
User profile information
Total number of contract information
Contract information 1
• • •
Contract information n

Contents of record

Fig. 13C

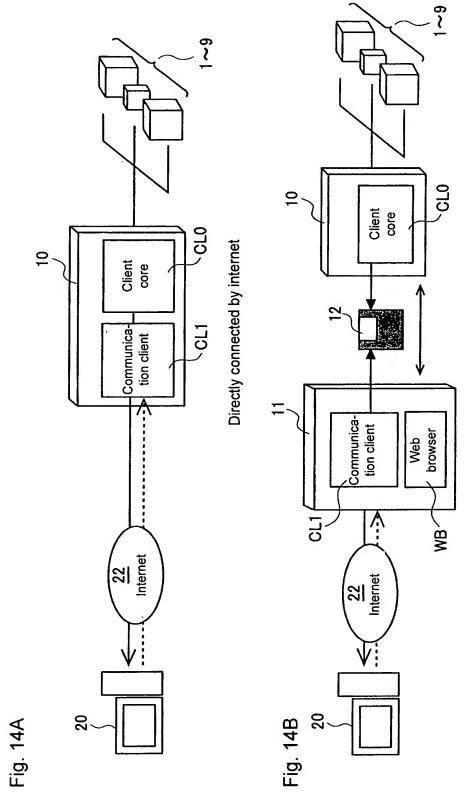
Data

Contracted packaging line name

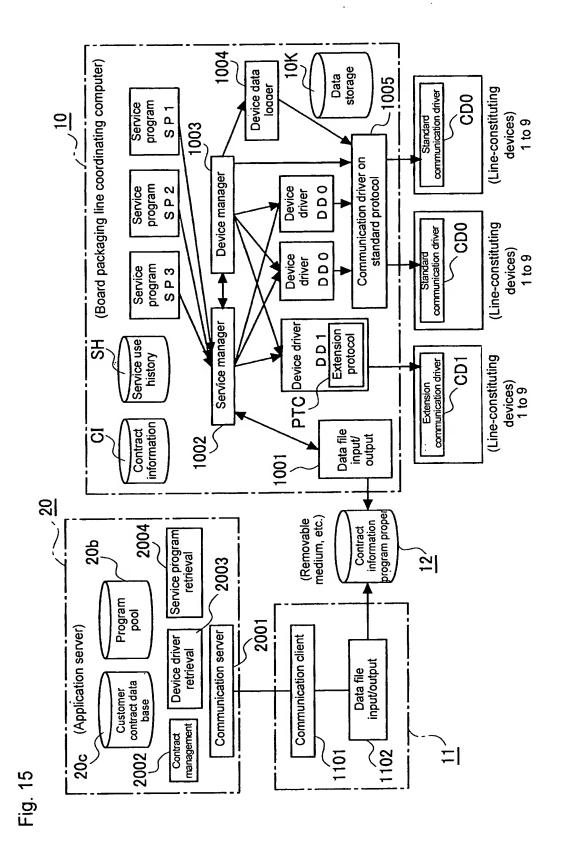
Detailed contract information

Contents of contract information

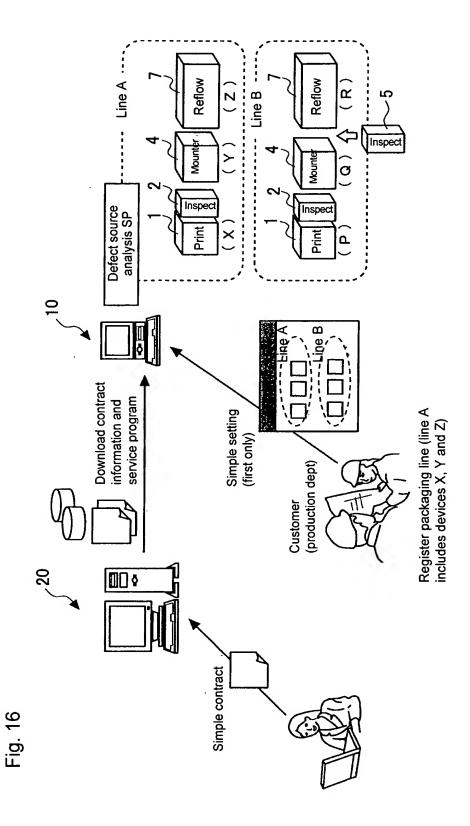
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Connected via removable medium



## BOARD PACKAGING LINE



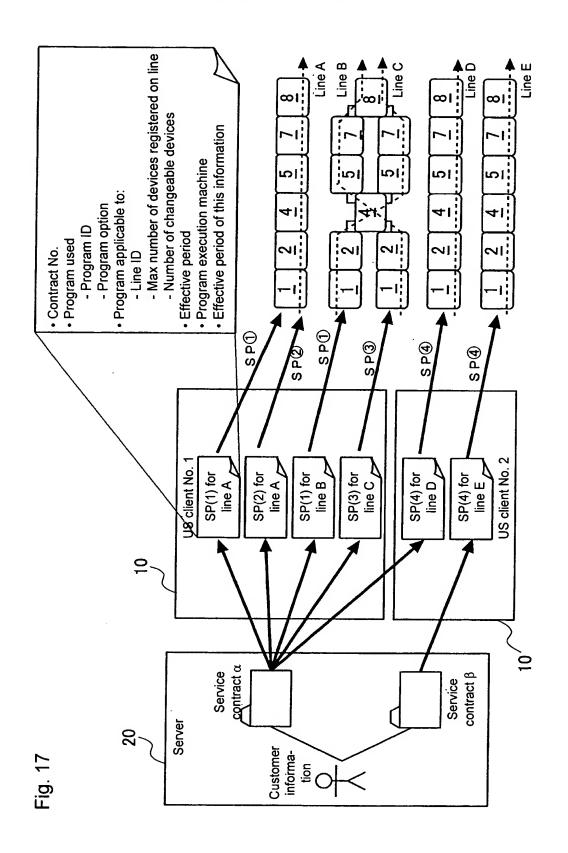
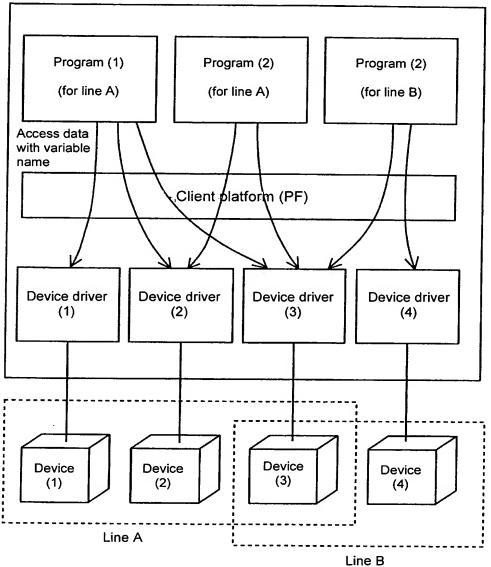


Fig. 18

Board packaging line coordinating computer 10



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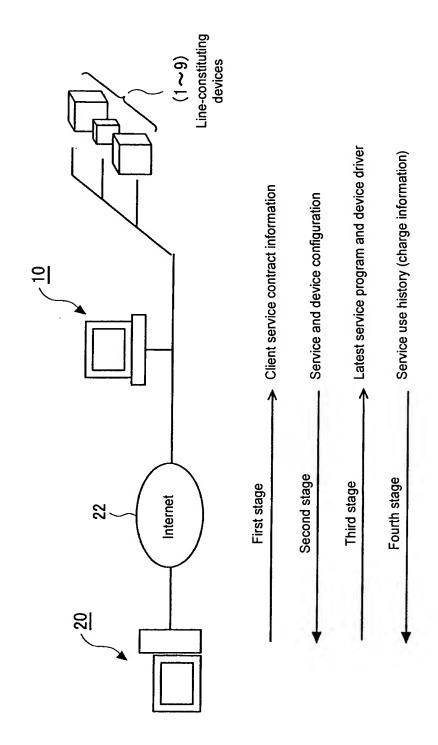
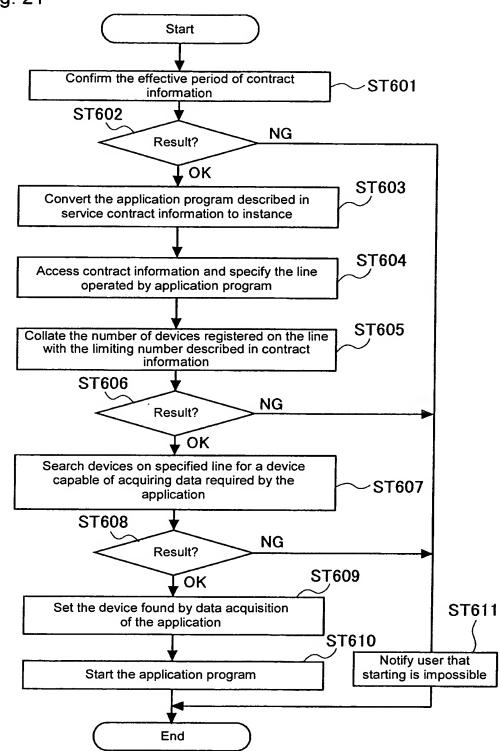


Fig. 20

Name	Description
Service contract ID No.	Number for specifying service contract managed by server in correspondence with customer information
Service contract name	Title name
Effective period starting date	Starting day of period during which execution of application program is permitted under contract
Last date of effective period	Last day of the period during which execution of application program is permitted under contract
Client ID	ID of user site service client permitted to execute the application program
Program ID	ID for designating the application program that can be used under contract
SP option character string	Character string read by application program and used for option setting (on/off of specific function). Format dependent on US application program
Applicable line ID	ID indicating line covered by the contract
Maximum number of registered devices	Limited value of total number of devices registered on applicable line under contract
Number of device registration changes allowed	Number of configuration changes allowed after starting application program
Effective period of information	Effective period from contract information acquisition by user site service client from server. In the case where data is exchanged with server and effective period is not renewed before expiry thereof, client software prohibits execution of the application program.  *Effective period of 0 day indicates no effective period.

Fig. 21



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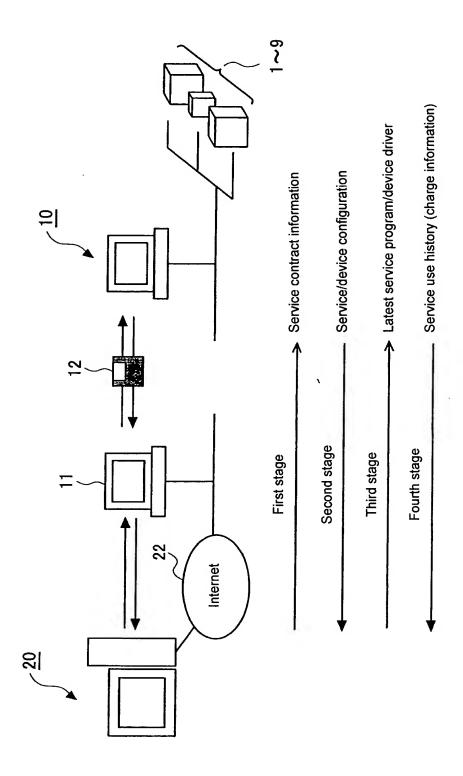
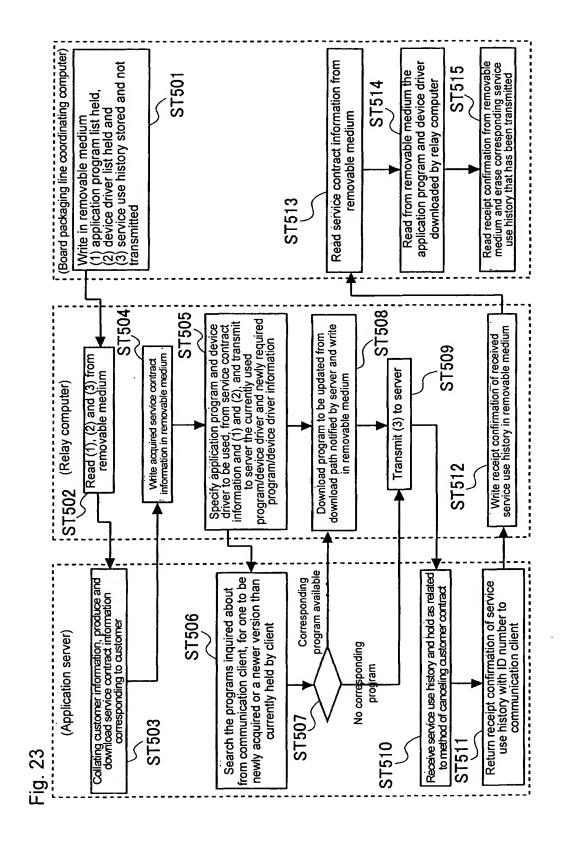


Fig. 22



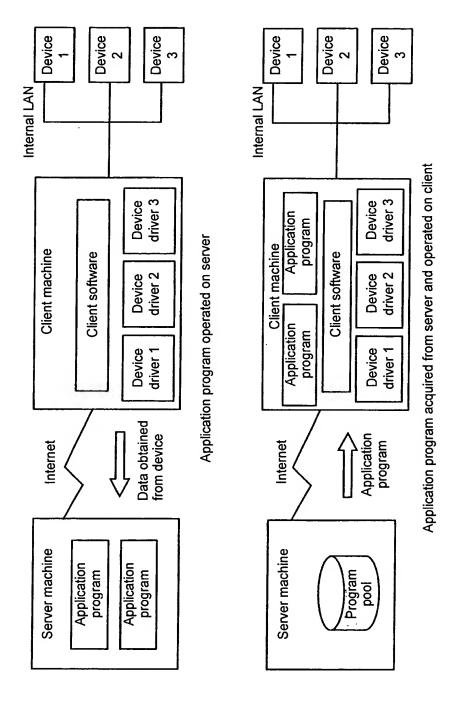


Fig. 24